

**Point-slope Form**

Sheet 4

Write the equation of the line whose slope and the point through which it passes are given. Express the equation in point-slope form.

1)  $(7, -8)$  and slope  $m = -1$

2)  $(-3, 0)$  and slope  $m = -9$

3)  $(9, 5)$  and slope  $m = -\frac{7}{2}$

4)  $(-6, -4)$  and slope  $m = 3$

5)  $(-4, 7)$  and slope  $m = -6$

7)  $(6, 3)$  and slope  $m = 4$

9)  $(-1, -2)$  and slope  $m = 8$

10)  $(5, 1)$  and slope  $m = \frac{2}{3}$

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1)  $(7, -8)$  and slope  $m = -1$

2)  $(-3, 0)$  and slope  $m = -9$

$$y + 8 = -1(x - 7)$$

$$y = -9(x + 3)$$

3)  $(9, 5)$  and slope  $m = -\frac{7}{8}$

4)  $(-6, -4)$  and slope  $m = 3$

$$y - 5 = -\frac{7}{8}(x - 9)$$

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5)  $(-4, 7)$  and slope  $m = -6$

$m = -6$

$$y - 7 = 5(x + 4)$$

7)  $(6, 3)$  and slope  $m = 4$

$m = 4$

$$y - 3 = 0$$

$$y + 3 = 4(x - 2)$$

9)  $(-1, -2)$  and slope  $m = 8$

10)  $(5, 1)$  and slope  $m = \frac{2}{3}$

$$y + 2 = 8(x + 1)$$

$$y - 1 = \frac{2}{3}(x - 5)$$